

ABSTRAK

Berdasarkan metode Fault Tree Analysis (FTA) dengan top event kecelakaan mesin pemotongan dan didapatkan 9 minimal *cut set*. Selanjutnya dengan top event kecelakaan mesin pengataman dengan 11. Selanjutnya dengan top event kecelakaan mesin pengataman dengan minimal *cut set* 6. Berdasarkan metode *Hazard Identification, Risk Assessment and Risk Control* (HIRARC) di dapatakan hasil aktifitas kerja mesin pemotongan kayu dengan identifikasi bahaya sebanyak 11 bahaya kerja, aktifitas kerja mesin pengataman kayu dengan hhasil identifikasi bahaya sebanyak 12 bahaya kerja, aktifitas kerja mesin pengataman kayu dengan hasil identifikasi bahaya sebanyak 9 bahaya kerja. Penilaian resiko dengan dengan nilai resiko H (*high Risk*) sebanyak 11, Medium sebanyak 2 dan L (*Low rik*) sebanyak 19. Pengendalian resiko untuk kecelakaan kerja di stasiun kerja pemotongan di dapatkan sebanyak 55 pengendalian resiko, untuk kecelakaan kerja di stasiun kerja pengataman kayu didapatkan sebanyak 10, pengendalian resiko, untuk kecelakaan kerja di stasiun kerja mesin gergaji didapatkan sebanyak 95 pengendalian resiko.

Kata Kunci: Keselamatan dan kesehatan kerja (K3), Fault Tree Analysis (FTA), HIRARC (Hazard Identification, Risk Assessment, and Risk Control), UMKM.

ABSTRACT

Based on the Fault Tree Analysis (FTA) method with the top event of cutting machine accidents and obtained 9 minimum cut sets. Furthermore, with the top event of the protection machine accident with 11. Furthermore, with the top event of the protection machine accident with a minimum cut set of 6. Based on the Hazard Identification, Risk Assessment and Risk Control (HIRARC) method, the results of the wood cutting machine work activities were obtained with hazard identification of 11 work hazards, wood protection machine work activities with hazard identification results of 12 work hazards, wood protection machine work activities with hazard identification results of 9 work hazards. Risk assessment with a risk value of H (high Risk) of 11, Medium of 2 and L (Low rik) of 19. Risk control for work accidents at the cutting work station obtained 55 risk controls, for work accidents at the wood protection work station obtained 10, risk control, for work accidents at the saw machine work station obtained 95 risk controls.

Keywords: Occupational safety and health (K3), Fault Tree Analysis (FTA), HIRARC (Hazard Identification, Risk Assessment, and Risk Control), MSMEs